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PREPARATION OF PHARMACEUTICAL AND OTHER MATRIX SYSTEMS BY SOLID-STATE DISSOLUTION

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(57) Claim

1. A process for preparing a delivery matrix comprising the steps of:

(a) solidifying a dispersion or solution of a matrix forming agent in a first solvent; and

(b) contacting the solidified dispersion or solution with a second solvent substantially miscible with the first solvent at a temperature at or higher than the solidification point of the second solvent and a temperature at or lower than the solidification point of the first solvent, the matrix forming agent being substantially insoluble in the second solvent, the contacting being sufficient to substantially remove the first solvent from the solidified dispersion or solution thereby yielding a delivery matrix that is substantially free of the first solvent.

7. A process for preparing a unit dosage form comprising the steps of:

(a) dispersing or dissolving a matrix forming agent in a first solvent;

(b) solidifying a unit volume of the dispersion or solution; and

(c) contacting the solidified unit volume with a second solvent substantially miscible with the first solvent, the second solvent being at a temperature at or higher than the solidification point of the second solvent and at a temperature at or lower than the solidification point of the first solvent, the matrix forming agent being substantially insoluble in the second solvent, the contacting being sufficient to substantially remove the first solvent from the solidified unit volume thereby yielding a unit dosage form that is substantially free of the first solvent. .

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18. A unit dosage form prepared according to a method comprising the steps of:
  - (a) dispersing or dissolving a matrix forming agent in a first solvent;
  - (b) solidifying a unit volume of the dispersion or solution; and
  - (c) contacting the solidified unit volume with a second solvent substantially miscible with the first solvent, the second solvent being at a temperature at or higher than the solidification point of the second solvent and at a temperature at or lower than the solidification point of the first solvent, the matrix forming agent being substantially insoluble in the second solvent, the contacting being sufficient to substantially remove the first solvent from the solidified unit volume yielding a unit dosage form.